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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-------------|----------------------|-------------------------|------------------|--|
| 09/823,465 | 03/30/2001 | Peter Kirkpatrick | 42390P12296 | 6092 | |
| 7590 02/26/2004 | | | EXAMINER | | |
| Archana B. Vittal | | | NGUYEN, TUYEN T | | |
| BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026 | | | ART UNIT | PAPER NUMBER | |
| | | | 2832 | 2832 | |
| | | | DATE MAILED: 02/26/2004 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | | 1811/ | | | |
|---|---|---|---|-------------|--|--|--|
| | | Application No. | Applicant(s) | | | | |
| Office Action Summary | | 09/823,465 | KIRKPATRICK ET | AL. | | | |
| | | Examiner | Art Unit | | | | |
| | | TUYEN T NGUYEN | 2832 | | | | |
| Period fe | The MAILING DATE of this communication apports. | pears on the cover sheet with the | correspondence ad | dress | | | |
| A SH THE - Exte afte - If th - If No - Faili Any | HORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. He period for reply specified above is less than thirty (30) days, a repl of period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b). | 136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS froe, cause the application to become ABANDON | timely filed lays will be considered timely om the mailing date of this co NED (35 U.S.C. § 133). | | | | |
| Status | | | | | | | |
| 1)🖂 | Responsive to communication(s) filed on 29 D | December 2003. | | | | | |
| 2a)□ | | s action is non-final. | | | | | |
| 3) | Since this application is in condition for allowa | ince except for formal matters, p | rosecution as to the | merits is | | | |
| • | closed in accordance with the practice under t | Ex parte Quayle, 1935 C.D. 11, | 453 O.G. 213. | | | | |
| Disposit | tion of Claims | | | | | | |
| 4)⊠ | Claim(s) <u>1,2,4,5 and 17-19</u> is/are pending in the | ne application. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5)[| Claim(s) is/are allowed. | | | | | | |
| 6)⊠ | Claim(s) <u>1,2,4,5 and 17-19</u> is/are rejected. | | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | | |
| 8)□ | Claim(s) are subject to restriction and/o | or election requirement. | | | | | |
| Applicat | tion Papers | | | | | | |
| 9)[| The specification is objected to by the Examine | er. | | | | | |
| 10) | ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | |
| | Applicant may not request that any objection to the | drawing(s) be held in abeyance. S | ee 37 CFR 1.85(a). | | | | |
| | Replacement drawing sheet(s) including the correct | tion is required if the drawing(s) is c | bjected to. See 37 CF | R 1.121(d). | | | |
| 11) | The oath or declaration is objected to by the Ex | xaminer. Note the attached Office | e Action or form PT | O-152. | | | |
| Priority | under 35 U.S.C. § 119 | | | | | | |
| | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document | ts have been received. | | | | | |
| | 2. Certified copies of the priority document | • • | | 04 | | | |
| | 3. Copies of the certified copies of the prio | · | ved in this National | Stage | | | |
| * (| application from the International Burea | ` '' | und | | | | |
| • | See the attached detailed Office action for a list | or the certified copies flot received | /eu. | | | | |
| Attachmer | nt(s) | | | | | | |
| | ce of References Cited (PTO-892) | 4) Interview Summa | rv (PTO-413) | | | | |
| 2) 🔲 Notic | ce of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail | Date | | | | |
| | rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 12/29/03. |) ☐ Notice of Informal 6) ☐ Other: | Patent Application (PTO | -152) | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4-5 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yap [US 6,285,043] in view of Cheon [US 6,194,774].

Yap discloses a package [figures 1 and 3b] comprising:

- an insulating substrate [14];
- at least one inductor coil [I1, I2] disposed on the substrate to electrically isolate at least two circuit components [figure 3b]; and
 - at least one resistor [RF1, RF2] coupled to the at least one inductor coil.

Yap discloses the instant claimed invention except for the specific structure of the inductor coil.

Cheon discloses an inductor package [figures 1-2] comprising:

- an insulating layer/substrate [110, 210];
- a plurality of traces/conductive patterns [122-128, 222-228] disposed on the substrate, each of the plurality of traces/conductive patterns having first and second ends, the first ends of the plurality of traces/conductive patterns located at a first side of the substrate and the second ends of the plurality of traces/conductive patterns located at a second side of the substrate

opposite to the first side; wherein the plurality of traces/conductive patterns are substantially parallel to each other; and

- a plurality of conductive bonded wires/patterns [132-138, 232-238] coupling the plurality of traces/conductive patterns [13] to form a coil by having each of the plurality of conductive wires/patterns coupling the first end of one trace/conductive pattern of the plurality of traces/conductive patterns to the second end of another of the plurality of traces/conductive patterns located adjacent to the one trace/conductive pattern, wherein the traces are wire-bonded to the wires.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the inductor coil design of Cheon for the inductor coil of Yap for the purpose of improving high Q.

Regarding claim 4, the specific method used to connect the wires/conductors to the electrically traces would have been an obvious design consideration for the purpose of completing the coil structure.

Regarding claim 5, the specific pitch and length of the traces would have been an obvious design consideration based on the intended application use and for the purpose of reducing the size of the device/package.

Response to Arguments

Applicant's arguments with respect to claims 1-2, 4-5 and 17-19 have been considered but are moot in view of the new ground(s) of rejection.

Application/Control Number: 09/823,465

Art Unit: 2832

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TUYEN T NGUYEN whose telephone number is 571-272-1966.

The examiner can normally be reached on M-F 8:30-6:30.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Trylu T. Nguylu

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